

I. Chemistry - the study of everything around us

A. What is chemistry?

B. Ozone layer - protects the Earth's surface from UV rays, made of oxygen

1. Ultraviolet radiation - harmful form of radiation that can cause skin cancer and cell mutations
2. Ozone is a substance (matter that has a definite composition) that absorbs most radiation before it reaches Earth's surface

a. 90% of Earth's surface is spread out in a layer that surrounds our planet

b. Earth's atmosphere consists of several layers
→ troposphere, stratosphere, mesosphere, thermosphere, and exosphere

c. Where is the ozone layer in the Earth's atmosphere?

3. Ozone enters the stratosphere when O_2 to UV radiation, O_3 (ozone)

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a. UV rays break O_2 down into O , which combines w/ other O_2 to make O_3

4. What is the normal O_3 in the stratosphere?

5. The ozone has been shown to be thinning

C. Chloro fluoro carbons (CFCs)

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